

Page 1 of 8 , Ζ.



1632

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/973,473

DATE: 07/18/2002 TIME: 13:01:19

RECEIVED

Input Set : A:\#702147 v1 - 51401-20004.txt

AUG 1 4 2002

Output Set: N:\CRF3\07182002\1973473.raw

TECH CENTER 1600/2900

ENTERED

see p.6

3 <110> APPLICANT: SONENBERG, Nahum 4 TREMBLAY, Michel TSUKIAYAMA-KOHARA, KYOKO 7 <120> TITLE OF INVENTION: NON-HUMAN TRANSGENIC ANIMAL WHOSE GERM CELLS AND SOMATIC CELLS CONTAIN A KNOCKOUT MUTATION IN DNA 9 ENCODING 4E-BP1 11 <130> FILE REFERENCE: 514012000400 13 <140> CURRENT APPLICATION NUMBER: 09/973,473 C--> 14 <141> CURRENT FILING DATE: 2001-10-03 16 <150> PRIOR APPLICATION NUMBER: PCT/CA00/00388 17 <151> PRIOR FILING DATE: 2000-04-07 19 <150> PRIOR APPLICATION NUMBER: 60/128,559 20 <151> PRIOR FILING DATE: 1999-04-09 22 <150> PRIOR APPLICATION NUMBER: 60/179,743 23 <151> PRIOR FILING DATE: 2000-02-02 25 <160> NUMBER OF SEQ ID NOS: 27 27 <170> SOFTWARE: PatentIn Ver. 2.1 29 <210> SEQ ID NO: 1 30 <211> LENGTH: 16 31 <212> TYPE: DNA 32 <213> ORGANISM: Artificial Sequence 34 <220> FEATURE: 35 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic 36 oligonucleotide 38 <400> SEQUENCE: 1 39 tgcaggagac atgtcg 16 42 <210> SEQ ID NO: 2 43 <211> LENGTH: 16 44 <212> TYPE: DNA 45 <213> ORGANISM: Artificial Sequence 47 <220> FEATURE: 48 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic oligonucleotide 51 <400> SEQUENCE: 2 52 acagtttgag atggac 16 55 <210> SEQ ID NO: 3 56 <211> LENGTH: 22 57 <212> TYPE: DNA 58 <213> ORGANISM: Artificial Sequence 60 <220> FEATURE: 61 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic oligonucleotide

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Input Set: A:\#702147 v1 - 51401-20004.txt
Output Set: N:\CRF3\07182002\1973473.raw

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RAW SEQUENCE LISTING DATE: 07/18/2002 PATENT APPLICATION: US/09/973,473 TIME: 13:01:19

Input Set : A:\#702147 v1 - 51401-20004.txt
Output Set: N:\CRF3\07182002\1973473.raw

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DATE: 07/18/2002

PATENT APPLICATION: US/09/973,473 TIME: 13:01:19 Input Set : A:\#702147 v1 - 51401-20004.txt Output Set: N:\CRF3\07182002\1973473.raw 206 <212> TYPE: PRT 207 <213> ORGANISM: Schistosoma mansoni 209 <400> SEQUENCE: 17 210 Arg Ile Ile Tyr Glu Arg Asp Phe Ile Leu Ser Cys Arg Asn Ser Pro 211 214 <210> SEQ ID NO: 18 215 <211> LENGTH: 16 216 <212> TYPE: PRT 217 <213> ORGANISM: Dictyostelium discoideum 219 <400> SEQUENCE: 18 220 Lys Ile Val Tyr Asp Arg Asn Ala Leu Leu Gln Tyr Arg Asn Ser Pro 221 224 <210> SEQ ID NO: 19 225 <211> LENGTH: 16 226 <212> TYPE: PRT 227 <213> ORGANISM: Saccharomyces cerevisiae 229 <400> SEQUENCE: 19 230 Lys Tyr Thr Tyr Gly Pro Thr Phe Leu Leu Gln Phe Lys Asp Lys Leu 231 10 234 <210> SEQ ID NO: 20 235 <211> LENGTH: 16 236 <212> TYPE: PRT 237 <213> ORGANISM: Saccharomyces cerevisiae 239 <400> SEQUENCE: 20 240 Met Ile Lys Tyr Thr Ile Asp Glu Leu Phe Gln Leu Lys Pro Ser Leu 241 10 244 <210> SEQ ID NO: 21 245 <211> LENGTH: 7 246 <212> TYPE: PRT 247 <213> ORGANISM: Artificial Sequence 249 <220> FEATURE: 250 <221> NAME/KEY: VARIANT 251 <222> LOCATION: (2)..(5) 252 <223> OTHER INFORMATION: x = any amino acid254 <220> FEATURE: 255 <221> NAME/KEY: VARIANT 256 <222> LOCATION: (7) 257 <223> OTHER INFORMATION: x = hydrophobic amino acid 259 <400> SEQUENCE: 21 W--> 260 Tyr Xaa Xaa Xaa Xaa Leu Xaa 261 1 264 <210> SEQ ID NO: 22 265 <211> LENGTH: 11 266 <212> TYPE: PRT 267 <213> ORGANISM: Artificial Sequence 269 <220> FEATURE: 270 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic 271 peptide 273 <220> FEATURE:

RAW SEQUENCE LISTING

DATE: 07/18/2002

TIME: 13:01:19

Input Set : A:\#702147 v1 - 51401-20004.txt Output Set: N:\CRF3\07182002\I973473.raw 274 <221> NAME/KEY: VARIANT 275 <222> LOCATION: (1) 276 <223> OTHER INFORMATION: x = positively charged amino acid 278 <220> FEATURE: 279 <221> NAME/KEY: VARIANT 280 <222> LOCATION: (7) 281 <223> OTHER INFORMATION: x = positively charged amino acid 283 <220> FEATURE: 284 <221> NAME/KEY: VARIANT 285 <222> LOCATION: (2) 286 <223> OTHER INFORMATION: x = hydrophobic amino acid 288 <220> FEATURE: 289 <221> NAME/KEY: VARIANT 290 <222> LOCATION: (10)..(11) 291 <223> OTHER INFORMATION: x = hydrophobic amino acid 293 <220> FEATURE: 294 <221> NAME/KEY: VARIANT 295 <222> LOCATION: (3) 296 <223> OTHER INFORMATION: x = any amino acid298 <220> FEATURE: 299 <221> NAME/KEY: VARIANT 300 <222> LOCATION: (4) 301 <223> OTHER INFORMATION: x = any amino acid303 <220> FEATURE: 304 <221> NAME/KEY: VARIANT 305 <222> LOCATION: (6) 306 <223> OTHER INFORMATION: x = any amino acid308 <220> FEATURE: 309 <221> NAME/KEY: VARIANT 310 <222> LOCATION: (8) 311 <223> OTHER INFORMATION: x = any amino acid313 <400> SEQUENCE: 22 W--> 314 Xaa Xaa Xaa Xaa Tyr Xaa Xaa Xaa Phe Xaa Xaa 315 318 <210> SEQ ID NO: 23 319 <211> LENGTH: 16 320 <212> TYPE: PRT 321 <213> ORGANISM: Artificial Sequence 323 <220> FEATURE: 324 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic 325 peptide 327 <220> FEATURE: 328 <221> NAME/KEY: VARIANT 329 <222> LOCATION: (1) 330 <223> OTHER INFORMATION: x = positively charged amino acid332 <220> FEATURE: 333 <221> NAME/KEY: VARIANT 334 <222> LOCATION: (6) 335 <223> OTHER INFORMATION: x = positively charged amino acid

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/973,473

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/18/2002 PATENT APPLICATION: US/09/973,473 TIME: 13:01:20

Input Set : A:\#702147 v1 - 51401-20004.txt
Output Set: N:\CRF3\07182002\1973473.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the $\langle 220 \rangle$ to $\langle 223 \rangle$ fields of each sequence which presents at least one n or Xaa.

Seq#:21; Xaa Pos. 2,3,4,5,7
Seq#:22; Xaa Pos. 1,2,3,4,6,7,8,10,11
Seq#:23; Xaa Pos. 1,2,3,5,6,7,8,9,10,11,12,14
Seq#:24; Xaa Pos. 1,2,3,5,6,7,10,11,12,14
Seq#:25; Xaa Pos. 1,2,3,5,6,7,8,10,11,12,14
Seq#:26; Xaa Pos. 1,2,3,5,6,7,10,11,12,13,14,15,16
Seq#:27; Xaa Pos. 1,2,3,5,6,7,8,10,11,12,13,14,15,16

VERIFICATION SUMMARY DATE: 07/18/2002 PATENT APPLICATION: US/09/973,473 TIME: 13:01:20

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Output Set: N:\CRF3\07182002\1973473.raw

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L:260 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:314 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
L:373 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
L:427 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
L:481 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
L:535 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
L:589 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0